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PPLICATION NO.	l i	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/719,515		11/20/2003	James Clifford Anderson	200309574-1	200309574-1 3020	
22879	7590	04/04/2006		EXAMINER		
		ARD COMPANY	OLSON, JASON C			
		04 E. HARMONY I ROPERTY ADMINI	ART UNIT	PAPER NUMBER		
FORT COLLINS, CO 80527-2400			2627			
				DATE MAILED: 04/04/2004	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11 41 11					
		Application No.	Applicant(s)				
	Office Action Summany	10/719,515	ANDERSON ET AL.				
Office Action Summary		Examiner	Art Unit				
		Jason C. Olson	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External after - If the - If NC - Failur Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 20 D	ecember 2005.					
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)□ 6)⊠ 7)⊠	4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-3,8,10-12,17,19-21,26,28-30 and 35 is/are rejected.  7) ☐ Claim(s) 4-7,9,13-16,18,22-25,27,31-34 and 36 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>20 November 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ objectod drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority (	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date							
3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)				

#### DETAILED ACTION

This office action is in response to arguments filed on 12/20/05.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 8, 10-12, 17, 19-21, 26, 28-30, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chliwnyj et al. (US 5,828,514), hereafter Chliwnyj and Egan (US 2005/0057843).

Regarding claims 1-3, Chliwnyj teaches receiving data when operating in a write mode (see col. 5, ln. 22-42; the channel receives data when data is to be written the magnetic tape); passing magnetic tape across an electromagnetic head (see col. 5, ln. 24-30); varying drive current to the electromagnetic head according to the data when operating in a write mode (see col. 5, ln. 22-42; the drive current is varied according to the data that is written to the tape); sensing current induced in the electromagnetic head when operating in a read mode (see col. 5, ln. 22-42; current induced during reading is sensed in the head); adjusting position of the electromagnetic head according to a sensed movement signal (see col. 10, ln. 55-66); generating a correction signal based on sensed movement information (see col. 9, ln. 32-36); and positioning the electromagnetic head according to the correction signal (see col. 9, ln. 36-40). Chliwnyj fails to teach sensing vibration imparted to a tape transport mechanism and generating

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an electrical signal according to the vibration experienced by a tape transport mechanism, however Egan is relied upon to teach sensing vibration imparted to a tape transport mechanism (see column [0030] and column [0032] lines 1-7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to improve upon controlling the position of the head based on a signal from a sensor of Chliwnyj by applying the teaching of sensing vibration in the tape mechanism with and outputting an acceleration signal as taught by Egan for the purpose of accurately offsetting the affects of vibration.

Regarding claim 8, the combination of Chliwnyj and Egan teach sensing a position of the magnetic tape relative to the electromagnetic head (see col. 8, ln. 15-21); and adjusting the position of the electromagnetic head according to the sensed position of the magnetic tape (see col. 8, ln. 21-27).

Regarding claims 10-12 and 17: Apparatus claims 10-12 and 17 are drawn to the apparatus corresponding to the method of using same as claimed in claims 1-3 and 8. Therefore apparatus claims 10-12 and 17 correspond to method claims 1-3 and 8, and are rejected for the same reasons of anticipation as used above.

Regarding claims 19-21, 26, 28-30, and 35: claims 19-21, 26, 28-30, and 35 have limitations similar to those treated in the above rejection(s), and are met by the references as discussed above. Claims 19 and 20 however also recites the following limitations as taught by the combination of Chliwnyj and Egan: accelerometer, wherein the accelerometer is attached to the tape transport mechanism (see column [0030] lines 1-3 and 9-11, and column [0032] lines 13-15). It would have been obvious to one of ordinary skill in the art at the time the invention was made to improve upon controlling the position of the head based on a signal from a sensor of Art Unit: 2627

Chliwnyj by applying the teaching of sensing vibration in the tape mechanism with an accelerometer and outputting an acceleration signal as taught by Egan for the purpose as stated in claim 1.

## Allowable Subject Matter

Claims 4-7, 9, 13-16, 18, 22-25, 27, 31-34, and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art fails to teach alone or in combination vibration limiter capable of limiting vibration frequencies of a chassis whereon the electromagnetic head is mounted in accordance with the frequency response of head positioning: vibration signal receiver capable of receiving a vibration indicative signal from the vibration sensor; and vibration signal processor capable of modifying the vibration indicative signal by applying compensation in order to improve the response of head positioning; vibration signal receiver capable of receiving a vibration indicative signal from the vibration sensor, and vibration signal processor capable of modifying the vibration indicative signal by applying prediction in order to improve the response of head positioning; generating a signal that precludes variations in the drive current to the electromagnetic head when the sensed vibration exceeds a pre-established rate of change.

## Response to Arguments

Applicant's arguments, see pages 11-16, filed 12/20/05, with respect to the rejection(s) of claims 1-3, 8, 10-12, and 17 under 35 U.S.C. 102(b) and the rejection of claims 19-21, 26, 28-30, Art Unit: 2627

and 35 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view Chliwnyj and Egan. Claims 1-3, 8, 10-12, 17, 19-21, 26, 28-30, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chliwnyj and Egan.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason C. Olson whose telephone number is (571)272-7560. The examiner can normally be reached on Monday thru Thursday 7:30-5:30; alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571)272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).